

To: [redacted]@tetrattech.com [redacted]@tetrattech.com [redacted]@tetrattech.com [redacted]@tetrattech.com
Cc: Nonresponsive based on revised scope [redacted]@tetrattech.com
From: Wagner, Christine [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=12068C1889924ECF96F692831F0C77D4-CWAGNE02]
Sent: Tue 8/18/2020 11:23:15 PM (UTC)
Subject: FW: Shiloh Radiation Item Procedure.
Conex Survey 280120.pdf

FYI only

From: [redacted]@WestonSolutions.com>
Sent: Tuesday, June 30, 2020 7:09 PM
To: Wagner, Christine <Wagner.Christine@epa.gov>
Subject: Shiloh Radiation Item Procedure.

Chris,

The following was the procedure for processing discrete radioactive items after the identification of additional isotopes at the Shiloh Site:

Note: items should be handled following the ALARA principle at all times.

- 1. Pending the item’s condition, items are photo documented prior to being secured in a plastic zip bag. Note, the bag may distort the visibility of the item, especially if it is soiled or muddy, making it difficult identify the item or read its labeling if it exists. Photos are taken with a measuring tape or ruler adjacent to reference the size of the item.
- 2. Ziploc bags are labeled with the Bucket ID, followed by the item count in the bucket: the third item in Bucket 26 would be represented by the ID: 26-3.
- 3. Items are analyzed using the SAM-940 or Flir identiFINDER™. Distance between the item and the instrument sensor should such that the instrument can identify the isotope but also should be as consistent as possible to compare activity levels between items.
- 4. Items with low activity may require closer to the instrument or longer analysis times to properly identify the isotope.
- 5. Spectra analysis #, isotope identification, exposure rate, distance analyzed from the item and a description are also recorded. See the table below and on the Item Log in the Site files.

Item ID	Bucket	Spectra #	SAM-940 Identification	Exposure Rate (µR/hr)	Distance	Description	Markings/Comments
26-1	Bucket 026	1069	Radium-226	161.6	1 in	toggle switch	
26-5	Bucket 026	1073	Radium-226	201.6	1 in	circuit breaker	spencer thermostat, part 109050 25
26-6	Bucket 026	1074	Radium-226	593.6	1 in	button source on lid of small container	

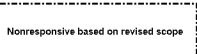
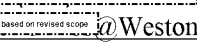
Be advised Tt’s Radiation Safety should need to prepare their own Radiation Protection Plan and Work Plan to protect their team.

When you return to Site, please remind the Site personnel of the gamma exposure levels within and at the Rad storage conex, including Radon as it hasn’t been opened. Attached is a reprint of the most recent conex survey, before returning the 3030 for yearly calibration.

Thank you,

Associate Geoscientist 3

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